ecology and environment, inc.
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#133773

133773
SUPERFUND RECORDS

MEMORANDUM

072P
Site: Mizzou Painting
ID# MOD985819547
Break: 2.3
Other: 3+4
9-5-2000

TO: Roy Crossland, EPA/START PO

FROM: Bill Mehnert, CHMM, E & E/START BB

THRU: Robert C. Overfelt, CPG, E & E/START PM RCO

DATE: September 5, 2000

SUBJECT: Removal Support for Contractor Monitoring at the Mizzou Painting Platte City site in Platte City, Missouri

TDD: S07-0005-012
PAN: 1552MPRSXX
EPA/OSC: Jeff Weatherford

INTRODUCTION

The Ecology & Environment, Inc. (E & E), Superfund Technical Assessment and Response Team (START) was tasked by the United States Environmental Protection Agency (EPA) Region 7 Superfund Division (SUPR), under Technical Direction Document (TDD) S07-0005-012, to assist the EPA on-scene coordinator (OSC) with the monitoring of removal activities at the Mizzou Painting Platte City (MPC) site, located at 19015 Humphrey Access Road in Platte City, Missouri.

Kingston Environmental Services, Inc. (KES), had been retained by Dennis Hess (the current property owner) to conduct site characterization and perform the removal of buried containers and contaminated soil. Dan Evans, the on-site project manager, was assisted by four KES employees (backhoe operator, two laborers, and site safety officer) to conduct removal activities. Specific elements tasked to START included: sample collection of the excavated waste material and submittal of a sample to a START-subcontracted laboratory; field documentation (logbook and photographic); and preparation of a summary

report. Jeff Weatherford was the EPA OSC for the site. START members (STMs) Bill Mehnert and Jeff Fletcher monitored the removal activities.

SITE DESCRIPTION

The Mizzou Paint site is located near the base of a hill on a residential property in the NW¼ of Sec. 11, T25N, R35W, Platte County (Attachment A: Figure 1. Site Location Map). The suspected area of the buried containers was less than 20 feet by 10 feet with an 8-foot depth. Rolling hills make up the surrounding terrain and land use is a mix of rural residential properties and agriculture.

SITE HISTORY

The EPA's Region 7 Criminal Investigation Division (CID) investigated the site on April 23, 1998. Three hundred and seventy-eight waste paint and paint-related product containers were discovered by the EPA. The 378 containers encountered consisted of one 55-gallon drum, 219 5-gallon containers, 141 1-gallon containers, and seventeen 1-quart containers. The EPA collected samples from the containers as well as from potentially impacted soil located at the site.

According to the Kingston Work Plan, the property was purchased by Dennis Hess from the Chase Manhattan Bank, USA, in April of 1999. EPA files indicate that in January of that year representatives of Chase Manhattan Bank were notified of the possible contaminants located on the property; however, according to Hess, the bank did not disclose this information prior to his purchase of the land that spring. Shortly after Hess purchased the property, he began the construction of a single-family residence (KES, 2000a). During this construction project, the containers were buried by Hess's contractor (Stinnett Construction) in a trench near an old foundation on the property (Attachment A: Figure 2. Site Plan).

The EPA returned to the site on December 7, 1999. Hess and his contractor, the Stinnett Construction Company, informed the EPA of the location of the buried containers. On January 18, 2000, the EPA issued a Unilateral Administrative Order (UAO) for the site which stated that the site must be cleaned up.

The waste area is located on the south side of the site (Figure 2). The information obtained during the EPA investigations indicated that the containers were primarily composed of paint, paint stripper, creosote, bituminous sealer, epoxy, flammable liquids, and other paint-related materials.

SITE ACTIVITIES

Removal monitoring activities were initiated during the week of May 22, 2000. START monitored KES to ensure that the work was conducted according to the approved work plan. KES was responsible for the excavation and disposal of the containers and contaminated soil. To accomplish this task, a backhoe operator excavated the contaminated material. Two field helpers segregated the unearthed containers (placed in 1-cubic-yard boxes) and the contaminated soils (piled on plastic visquene sheeting). A total of twelve 1-cubic-yard boxes were filled with containers of paints, solvents, epoxies, and roof tar. The wastes were segregated into nine different waste streams (six paint groups, solvents, epoxies, and roof tar), and each waste stream was sampled and analyzed for flash point, total lead, toxicity characteristic leachate procedure (TCLP) lead, pH, and chlorinated solvents (KES, 2000b).

After a volume of approximately 8 feet wide by 19 feet long by 8 feet deep was excavated, seven confirmation samples were collected from the outer walls and floor of the excavation pit by KES on May 23, 2000. These samples were analyzed for polynuclear aromatic hydrocarbons (PAHs), RCRA metals, and volatiles. In addition, two samples were collected from the two excavated waste piles to be analyzed for reactive cyanide, reactive sulfide, pH, percent ash, paint filter, flash point, percent solids, TCLP metals, TCLP volatiles, TCLP semivolatiles, polychlorinated biphenyls (PCBs), and volatiles at Analytical Management Laboratories (AML), in Olathe, Kansas.

The OSC requested that E & E procure analytical services for a sample to be collected from the excavated materials. On May 23, 2000, at 1310 hours, the sample was collected from the excavation pile, preserved in an iced cooler, and shipped to Keystone Laboratories in Newton, Iowa, to be analyzed for volatiles and TCLP metals. KES suspended site activities until analytical results and disposal approval for excavated materials were received.

Analytical Results

The two KES waste (excavated material) samples submitted to AML indicated no detections of volatiles, PCBs, and semivolatiles. Only barium was detected in the two TCLP metals results at 2.26 milligrams per liter (mg/L) and 2.23 mg/L. Analytical results from the START-collected waste sample indicated volatiles concentrations as high as 255,000 parts per million (ppm) for xylenes. The sample also contained 4-methyl-2-pentanone (MIBK) at 36,600 ppm, ethyl benzene at 46,900 ppm, naphthalene at 34,600 ppm, and toluene at 20,100 ppm. Based on the analytical data from KES and START, the OSC

determined that the excavated material could be disposed of as a special waste at the Forest View Landfill in Kansas City, Kansas.

The analytical results for the nine samples from the nine waste streams submitted by KES to AML indicated the material was non-hazardous and could be disposed as a special waste after solidification. It was determined that part of the solvent waste stream that was in liquid form would either need to be resampled to determine proper disposal, or in lieu of resampling, the solvent material would have to be disposed of as a hazardous waste.

The confirmation soil samples collected from the outer walls and floor of the excavated pit had low concentrations of the PAHs naphthalene, acenaphthene, and phenanthrene. According to KES, all of the PAH concentrations were below the Cleanup Levels for Missouri (CALM). Several volatile organic compounds were detected in the confirmation samples, but they were below the CALM levels. Selenium was the only analyte detected above the CALM (4.37 milligrams per kilogram [mg/kg]) in two soil confirmation samples at 4.6 mg/kg and 5.9 mg/kg (KES, 2000b).

FOLLOWUP ACTIVITIES

KES backfilled the excavated area on August 17, 2000 (Attachment B: Photographic Documentation). On August 22, the excavated soil and solidified waste material were transported in four dump trucks to the Forest View landfill in Kansas City, Kansas, and disposed as a special waste. According to Evans, the remaining 5-gallon bucket of solvent had been overpacked in a 30-gallon drum and left on-site. Proper disposal (as a hazardous waste) is scheduled in early September at the Haz-Mat Response, Inc., facility in Kansas City, Missouri.

Removal Considerations

The materials characterized on site as hazardous have been removed by KES. No known significant conditions warranting further EPA Superfund removal actions exist.

Pre-remedial Considerations

Based on KES analytical data indicating that all wastes have been removed from the site, it appears that no threat to the surface water, ground water, soil, and air pathways exist.

REFERENCES

Kingston Environmental Services, Inc. (KES), 2000a, *Response Action Work Plan: Mizzou Paint Company Site, Platte City, Missouri*, Lee's Summit, Missouri, March 23, 2000.

_____, 2000b, *Interim Report: Mizzou Paint Company Site, Platte City, Missouri*, Lee's Summit, Missouri, July 5, 2000.

ATTACHMENTS:

A. Figure 1: Site Location Map
   Figure 2: KES Site Plan
   Figure 3: KES Excavation and Sample Location Map

B. Photographic Documentation

C. Removal Site Evaluation and Removal Preliminary Assessment

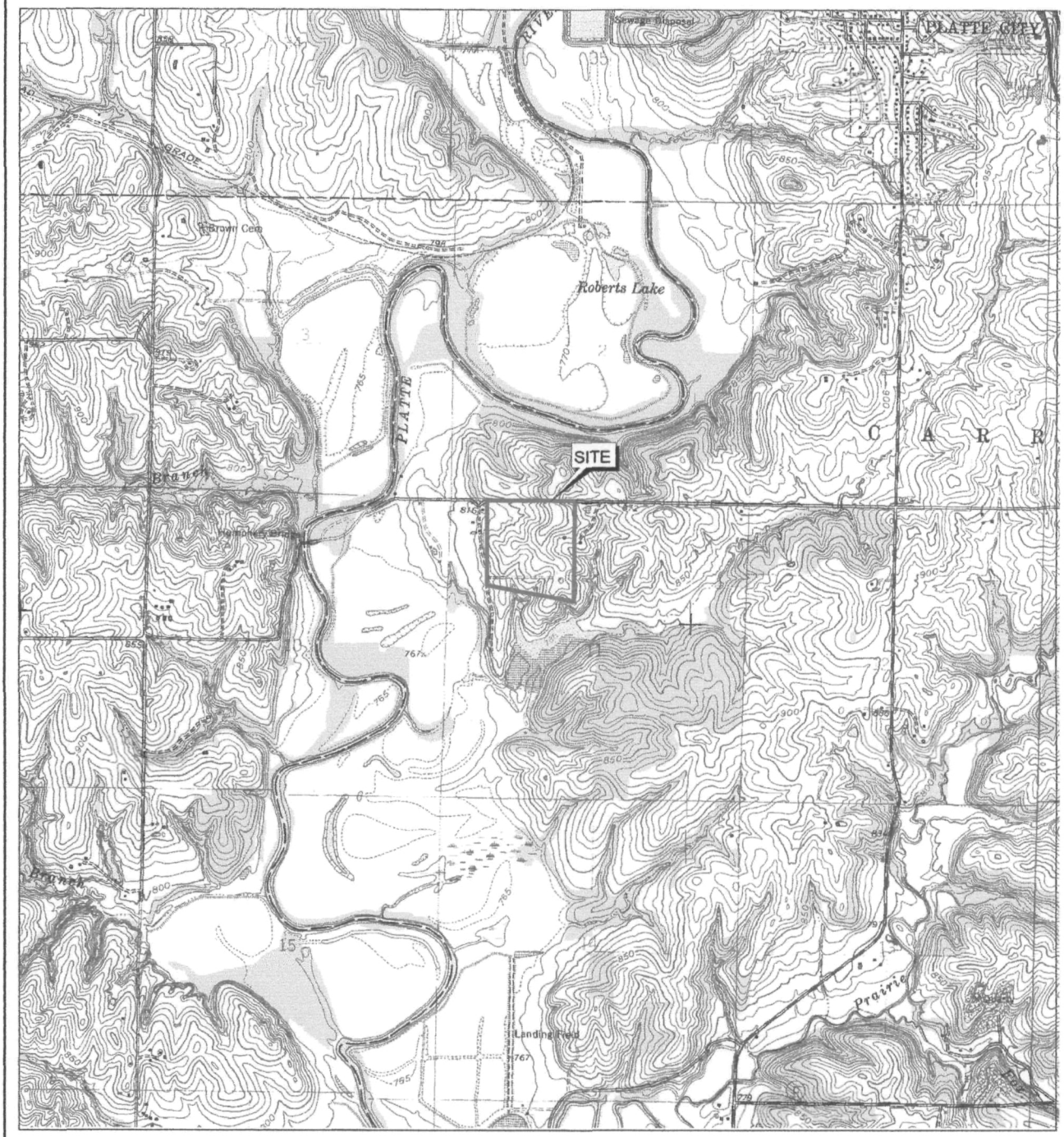
D. Analytical Results, Chain of Custody, Field Sheet

ATTACHMENT A

Figure 1: Site Location Map

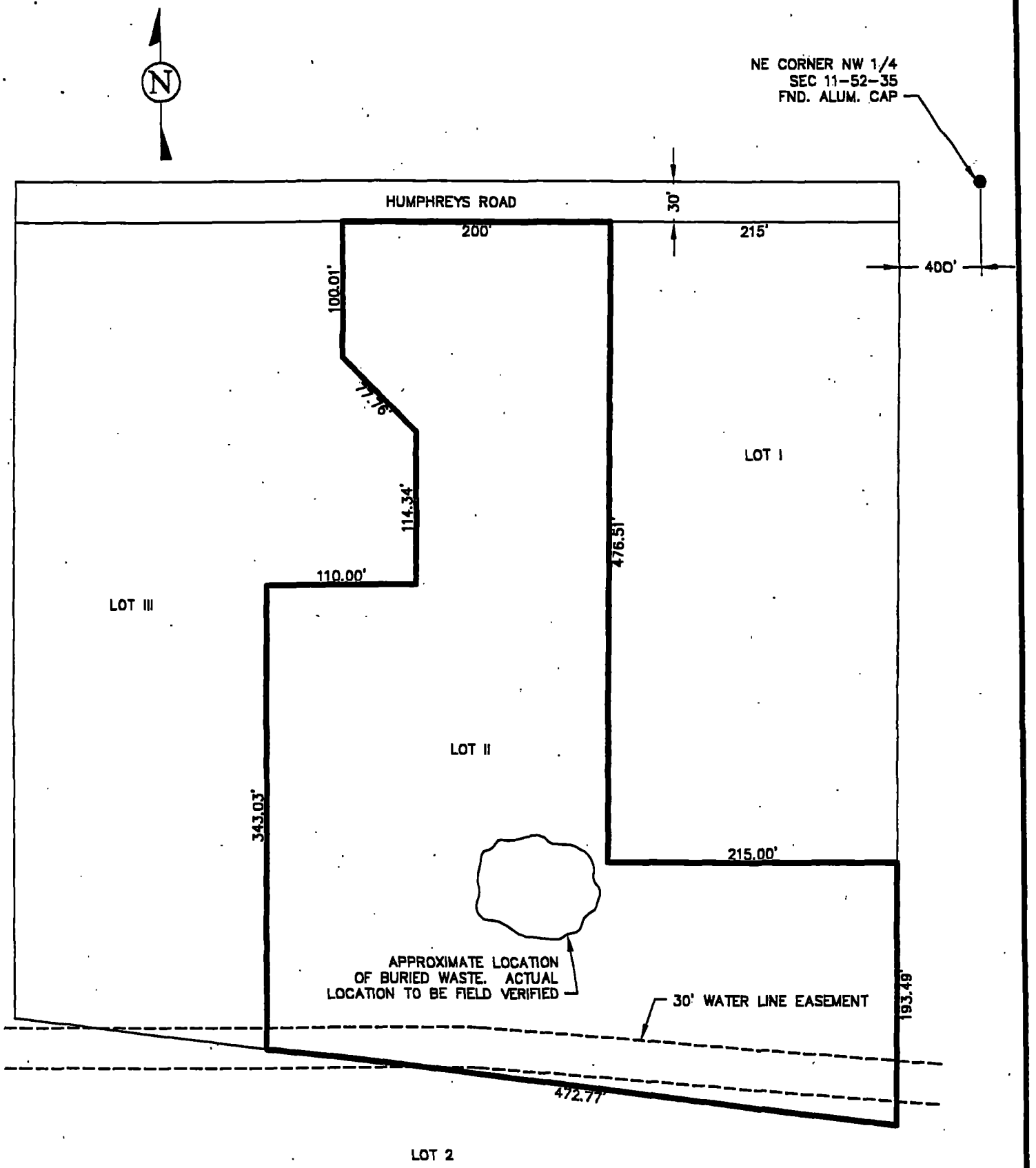
Figure 2: KES Site Plan

Figure 3: KES Excavation and Sample Location Map



MIZZOU.APR

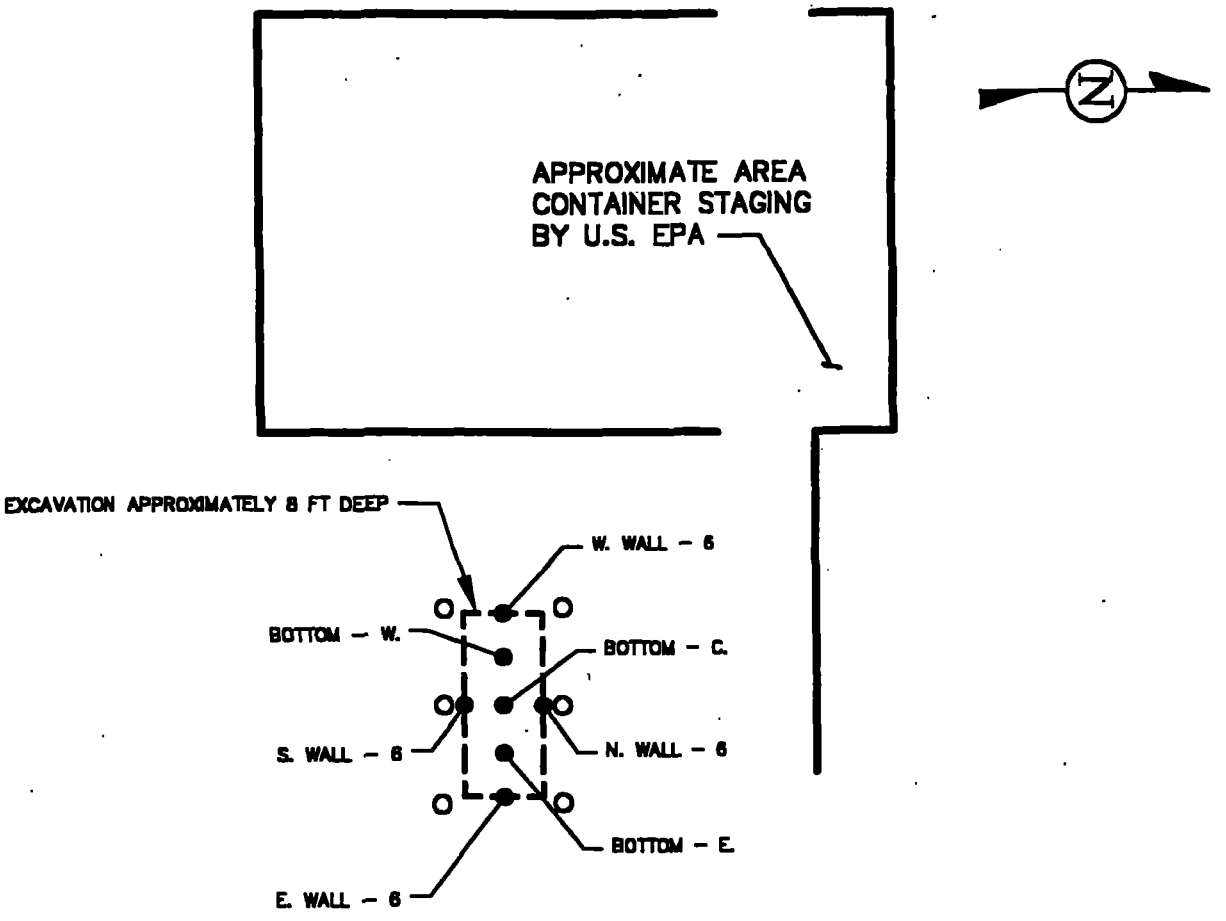
Figure 1: Site Location Map



SCALE: 1" = 100'	DRAWN BY: J.N.C.
DATE: 2-8-00	SHEET NO(S): SHEET 1 OF 1
DRAWING NO: 1562-2	
PROJECT: 00-R329	

SITE PLAN
MIZZOU PAINT COMPANY
19015 HUMPHRES ROAD
PLATTE COUNTY, MO

Kingston Environmental Services, Inc.
1800 S.W. MARKET ST.
LEE'S SUMMIT, MO 64081 (816) 524-8811



LEGEND

- REMNANTS OF FORMER BUILDING
- FLAGS SET BY STINNETT CONSTRUCTION
- LIMITS OF EXCAVATION
- VERIFICATION SAMPLE LOCATION

SCALE: 1" = 20'	DRAWN BY: TLR
DATE: 6-7-00	SHEET INDEX: FIGURE 3
DRAWING NO: 1561-4	
PROJECT: 00-R328	

EXCAVATION AND SAMPLE LOCATION MAP
MIZZOU PAINT COMPANY
19015 HUMPHRES ACCESS ROAD
PLATTE COUNTY, MO

Kingston Environmental Services, Inc.
1600 S.W. MARKET ST.
LEE'S SUMMIT, MO 64081 (816) 524-8811

ATTACHMENT B

Photographic Documentation

ATTACHMENT C

Removal Site Evaluation and Removal Preliminary Assessment

SUPERFUND REMOVAL SITE EVALUATION
and
REMOVAL PRELIMINARY ASSESSMENT

I. SITE NAME AND LOCATION: Mizzou Paint Site - Platte City, Missouri

NAME: Mizzou Paint Company

ADDRESS OR OTHER LOCATION IDENTIFIER: NW Quarter of Section 11, T25N, R35W

CITY: Platte City	**STATE:** Missouri	**ZIP:** 64079

DIRECTIONS TO SITE: From Kansas City, Missouri, take Interstate 29 north past Kansas City International Airport to the Platte City, Missouri exit, Highway 92. Take 92 west ½ mile to state road N. Take a left (south) on state road N for 1 mile to Humphrey Road. Take a right (west) on Humphrey road and travel 1 mile to the site located at 19015 Humphrey Road.

MAP ATTACHED IN REPORT.

II. PROGRAM CONTACTS: Jeff Fletcher, Bill Mehnert

REQUESTED BY: Jeff Weatherford	**DATE OF REQUEST:** June 20, 2000

AGENCY/OFFICE: Kansas City Region 7 U.S. Environmental Protection Agency

MAILING ADDRESS: 901 N. 5th Street

CITY: Kansas City	**STATE:** Kansas	**ZIP:** 66101
TELEPHONE: 913.551.7909	**FAX:** 913.551.7948	

EVALUATOR: Bill Mehnert

AGENCY/OFFICE: Ecology & Environment. Inc./START

MAILING ADDRESS: 6405 Metcalf Avenue, Bldg. #3, Ste. 404

CITY: Overland Park	**STATE:** Kansas	**ZIP:** 66202
TELEPHONE: 913.432.9961	**FAX:** 913.432.0670	

III. REMOVAL SITE EVALUATION CRITERIA [40 CFR 300.410(e)]:

IS THERE A RELEASE AS DEFINED BY THE NCP: YES ☐ or NO ■

EXPLAIN: Contaminants have been removed from the site and will be properly disposed.

(A RELEASE is defined as any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into the environment (including the abandonment of barrels, containers, and other closed receptacles containing any hazardous substances or pollutant or contaminant), but excludes: workplace exposures; engine exhaust emissions; nuclear releases otherwise regulated; and the normal application of fertilizer. For purposes of the NCP, release also means threat of release.)

IS THE SOURCE A FACILITY OR VESSEL AS DEFINED BY THE NCP: YES ■ or NO ☐

EXPLAIN: The source pit is at a residence and measures 5 x 20 x 5 feet.

(A FACILITY is defined as any building, structure, installation, equipment, pipe or pipeline (including any pipe into a sewer or POTW), well, pit, pond, lagoon, impoundment, ditch, landfill, storage container, motor vehicle, rolling stock, or aircraft or any site or area, where a hazardous substance has been deposited, stored, disposed of, or placed, or otherwise come to be located; but does not include any consumer product in consumer use or any vessel. A VESSEL is defined as any description of watercraft or other artificial contrivance used, or capable of being used, as a means of transportation on water other than a public vessel.)

DOES THE RELEASE INVOLVE A HAZARDOUS SUBSTANCE, OR POLLUTANT OR CONTAMINANT AS DEFINED BY THE NCP: YES ☐ or NO ■

EXPLAIN: Contaminants have been removed from the site and will be properly disposed.

(A HAZARDOUS SUBSTANCE means any substance, element, compound, mixture, solution, hazardous waste, toxic pollutant, hazardous air pollutant, or imminently hazardous chemical substance or mixture designated pursuant to the CWA, CERCLA, SDWA, CAA or TSCA. The term does not include petroleum products, natural gas, natural gas liquids, liquefied natural gas, synthetic gas or mixtures of natural and synthetic gas. The definition of POLLUTANT or CONTAMINANT includes, but is not limited to, any element, substance, compound, or mixture, including disease-causing agents, which after release into the environment and upon exposure, ingestion, inhalation, or assimilation into any organism, either directly from the environment or indirectly by ingestion through food chains, will or may reasonably be anticipated to cause death, disease, behavioral abnormalities, cancer, genetic mutation, physiological malfunctions or physical deformations, in such organisms or their offspring. The term does not include petroleum products, natural gas, natural gas liquids, liquefied natural gas, synthetic gas or mixtures of natural and synthetic gas).

SUPERFUND REMOVAL SITE EVALUATION
and
REMOVAL PRELIMINARY ASSESSMENT

III. REMOVAL SITE EVALUATION CRITERIA [40 CFR 300.410(e)] (continued):

IS THE RELEASE SUBJECT TO THE LIMITATIONS ON RESPONSE: YES ☐ or NO ■

EXPLAIN:

(The LIMITATIONS ON RESPONSE provisions of the NCP (40 CFR 300.400(B) states that removals shall not be undertaken in response to a release: of a naturally occurring substance in its unaltered or natural form; from products that are a part of the structure of, and result in exposure within, residential buildings or business or community structures; or into public or private drinking water supplies due to deterioration of the system through ordinary use.)

DOES THE QUANTITY OR CONCENTRATION WARRANT RESPONSE: YES ☐ or NO ■

EXPLAIN: The contaminants have been removed and will be properly disposed.

HAS A PRP BEEN IDENTIFIED: YES ■ or NO ☐

EXPLAIN: Dennis Hess
19015 Humphrey Access Road
Platte City, Missouri 64079

IV. CONDITIONS TO WARRANT REMOVAL [40 CFR 300.415(b)(2)]:

ACTUAL OR POTENTIAL EXPOSURE TO HAZARDOUS SUBSTANCES, OR POLLUTANTS, OR CONTAMINANTS: YES ☐ or NO ■

EXPLAIN: Contaminants have been disposed.

ACTUAL OR POTENTIAL CONTAMINATION OF DRINKING WATER SUPPLIES: YES ☐ or NO ■

EXPLAIN: Contaminants have been disposed. Contamination is believed to have existed in the first 6 feet of soil and had not migrated to drinking water supplies.

HAZARDOUS SUBSTANCES, POLLUTANTS, OR CONTAMINANTS IN DRUMS, BARRELS, OR BULK STORAGE CONTAINERS: YES ☐ or NO ■

EXPLAIN: Contaminants have been disposed.

HIGH LEVELS OF HAZARDOUS SUBSTANCES, POLLUTANTS, OR CONTAMINANTS IN NEAR-SURFACE SOILS: YES ☐ or NO ■

EXPLAIN: All contaminants present have been disposed.

CONDITIONS SUSCEPTIBLE TO IMPACT FROM ADVERSE WEATHER CONDITIONS: YES ☐ or NO ■

EXPLAIN:

THREAT OF FIRE OR EXPLOSION: YES ☐ or NO ■

EXPLAIN: Contaminants have been removed.

POTENTIAL FOR OTHER FEDERAL OR STATE RESPONSE MECHANISMS: YES ☐ or NO ■

EXPLAIN: Contaminants have been removed and were properly disposed.

SUPERFUND REMOVAL SITE EVALUATION
and
REMOVAL PRELIMINARY ASSESSMENT

IV. CONDITIONS TO WARRANT REMOVAL [40 CFR 300.415(b)(2)] (continued):

OTHER SITUATIONS OR FACTORS WHICH POSE A THREAT: YES ☐ or NO ■

EXPLAIN: Removal has already occurred.

V. POTENTIAL REMOVAL ACTIONS [40 CFR 300.415(d)]:

(NOTE: The following identifies potential removal actions which may be determined to be appropriate pending further review and study. The proposed actions should be considered preliminary proposals and are subject to change.)

SITE SECURITY: YES ☐ or NO ■

EXPLAIN: Site is on private, residential property.

STABILIZATION OR REMOVAL OF SURFACE IMPOUNDMENTS: YES ☐ or NO ■

EXPLAIN: Removal has been completed. No surface impoundments were present on the site.

CAPPING OF CONTAMINATED SOIL: YES ☐ or NO ■

EXPLAIN: Removal of contaminated material has already occurred.

USE OF CHEMICALS TO CONTROL/RETARD SPREAD OF CONTAMINATION: YES ☐ or NO ■

EXPLAIN:

CONTAMINATED SOIL EXCAVATION: YES ■ or NO ☐

EXPLAIN: Removal of contaminated material has been completed with disposal at approved facilities.

REMOVAL OF DRUMS, TANKS, OR BULK STORAGE CONTAINERS: YES ■ or NO ☐

EXPLAIN: The removal of all the drums and containers has been completed

CONTAINMENT, TREATMENT, OR DISPOSAL OF HAZARDOUS SUBSTANCES, POLLUTANTS, OR CONTAMINANTS: YES ☐ or NO ■

EXPLAIN: Disposal of material at proper facilities has already been completed.

PROVIDE ALTERNATIVE WATER SUPPLIES: YES ☐ or NO ■

EXPLAIN:

PHOTOGRAPHIC RECORD
Ecology and Environment, Inc.
(Superfund Technical Assessment and Response Team)

SITE NAME: Mizzou Paint
SITE LOCATION: Platte City, Missouri
JOB#: 000609.KJ07.05 **TDD:** S07-0005-012 **PAN:** 1552MPRSXX

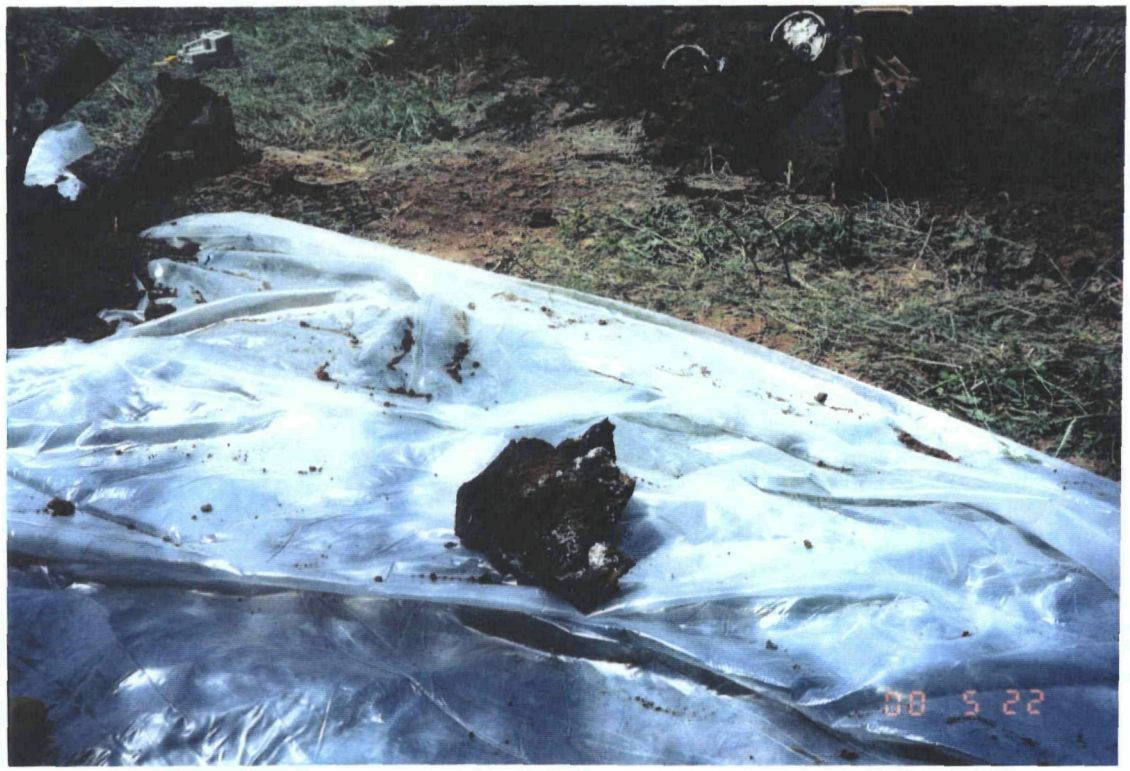
Photographer: Bill Mehnert
Date: 5/22/00
Time: 1400
Roll: 1
Frame no.: 1
Direction: Northwest
Comments: Excavated soil on top of visquene sheeting.

Photographer: Bill Mehnert
Date: 5/22/00
Time: 1411
Roll: 1
Frame no.: 3
Direction: Northwest
Comments: Left pile is clean soil, the right pile is contaminated soil.

PHOTOGRAPHIC RECORD
Ecology and Environment, Inc.
(Superfund Technical Assessment and Response Team)

SITE NAME: Mizzou Paint
SITE LOCATION: Platte City, Missouri
JOB#: 000609.KJ07.05 **TDD:** S07-0005-012 **PAN:** 1552MPRSXX

Photographer: Bill Mehnert
Date: 5/22/00
Time: 1421
Roll: 1
Frame no.: 5
Direction: Down
Comments: Crushed bucket with white paint waste.



Photographer: Bill Mehnert
Date: 5/22/00
Time: 1435
Roll: 1
Frame no.: 7
Direction: West
Comments: Excavation hole (4-feet deep) with waste containers.

PHOTOGRAPHIC RECORD
Ecology and Environment, Inc.
(Superfund Technical Assessment and Response Team)

SITE NAME: Mizzou Paint
SITE LOCATION: Platte City, Missouri
JOB#: 000609.KJ07.05 **TDD:** S07-0005-012 **PAN:** 1552MPRSXX

Photographer: Bill Mehnert
Date: 5/22/00
Time: 1454
Roll: 1
Frame no.: 8
Direction: Southwest
Comments: Excavation area surrounded by the construction fence and neighboring residence.

Photographer: Bill Mehnert
Date: 5/22/00
Time: 1500
Roll: 1
Frame no.: 10
Direction: South
Comments: Site area from back of owner's home.

PHOTOGRAPHIC RECORD
Ecology and Environment, Inc.
(Superfund Technical Assessment and Response Team)

SITE NAME: Mizzou Paint
SITE LOCATION: Platte City, Missouri
JOB#: 000609.KJ07.05 **TDD:** S07-0005-012 **PAN:** 1552MPRSXX

Photographer: Jeff Fletcher
Date: 5/23/00
Time: 0905
Roll: 1
Frame no.: 12
Direction: Northeast
Comments: Unloading excavated 5-gallon buckets from bucket of backhoe.

Photographer: Jeff Fletcher
Date: 5/23/00
Time: 0910
Roll: 1
Frame no.: 13
Direction: West
Comments: Inventory and separation of wastes.

PHOTOGRAPHIC RECORD
Ecology and Environment, Inc.
(Superfund Technical Assessment and Response Team)

SITE NAME: Mizzou Paint
SITE LOCATION: Platte City, Missouri
JOB#: 000609.KJ07.05 **TDD:** S07-0005-012 **PAN:** 1552MPRSXX

Photographer: Jeff Fletcher
Date: 5/23/00
Time: 1135
Roll: 1
Frame no.: 17
Direction: West
Comments: Western end of excavation area.

Photographer: Jeff Fletcher
Date: 5/23/00
Time: 1120
Roll: 1
Frame no.: 16
Direction: East
Comments: Containers and contaminated soil (background) and "clean" soil (foreground) piled up after being unearthed.

PHOTOGRAPHIC RECORD
Ecology and Environment, Inc.
(Superfund Technical Assessment and Response Team)

SITE NAME: Mizzou Paint
SITE LOCATION: Platte City, Missouri
JOB#: 000609.KJ07.05 **TDD:** S07-0005-012 **PAN:** 1552MPRSXX

Photographer: Jeff Fletcher
Date: 5/23/00
Time: 1510
Roll: 1
Frame no.: 20
Direction: West
Comments: Site presentation at end of work day with residence in the background

Photographer: Jeff Fletcher
Date: 8/17/00
Time: 1145
Roll: 2
Frame no.: 4
Direction: NE
Comments: Backfilling excavation pit with clean soil.

PHOTOGRAPHIC RECORD
Ecology and Environment, Inc.
(Superfund Technical Assessment and Response Team)

SITE NAME: Mizzou Paint
SITE LOCATION: Platte City, Missouri
JOB#: 000609.KJ07.05 **TDD:** S07-0005-012 **PAN:** 1552MPRSXX

Photographer: Jeff Fletcher
Date: 08/17/00
Time: 1145
Roll: 2
Frame no.: 2
Direction: NE
Comments: The cubic yard boxes lined with plastic sheeting containing the excavated waste containers.

Photographer: Jeff Fletcher
Date: 08/17/00
Time: 1150
Roll: 2
Frame no.: 6
Direction: East
Comments: Compacting backfill soil with the bucket of the back hoe.

SUPERFUND REMOVAL SITE EVALUATION
and
REMOVAL PRELIMINARY ASSESSMENT

VI. REMOVAL SITE EVALUATION DETERMINATION AND REMOVAL PRELIMINARY ASSESSMENT FINDINGS AND RECOMMENDATIONS:

	REMOVAL NOT WARRANTED—REMOVAL SITE EVALUATION TERMINATED

(Cite one or more of the criteria from SECTION III. **REMOVAL SITE EVALUATION CRITERIA**, as the basis for the above determination.)

	X	NOT A RELEASE		NOT A FACILITY OR VESSEL
		NOT A HAZARDOUS SUBSTANCE OR POLLUTANT OR CONTAMINANT		SUBJECT TO RESPONSE LIMITATIONS
		INSUFFICIENT QUANTITY OR CONCENTRATION	X	WILLING/CAPABLE PRP IDENTIFIED

COMMENT: With EPA approval, Kingston began excavation of the waste material on May 22, 2000. Excavation was complete May 23, 2000. Currently the size of the waste removal area is approximately 8 feet wide, 19 feet long, and 8 feet deep. The excavation was completed by removing approximately two feet of soil in each direction of the waste materials. The waste material consisted of approximately 366 containers, which have been overpacked into twelve 1-cubic-yard containers, and the excavated contaminated soil. The waste samples collected by START contained 4-methyl-2-pentanone (MIBK), ethyl benzene, naphthalene, toluene, xylenes, as well as barium and chromium. Waste has been disposed of subject to EPA-approval and KDHE approval (landfill is in Kansas). Based on the Kingston analytical data indicating that all wastes have been removed from the site, it appears that no threat to the surface water, ground water, soil, and air pathways exist.

	REMOVAL RECOMMENDED [___ EMERGENCY ___ TIME-CRITICAL ___ NON-TIME-CRITICAL]

(Cite one or more of the conditions or factors from Section IV. **CONDITIONS TO WARRANT A REMOVAL ACTION**, as a basis for recommending that a removal action be conducted.)

		EXPOSURE TO HAZARDOUS SUBSTANCES OR POLLUTANTS OR CONTAMINANTS				ADVERSE WEATHER IMPACTS
		CONTAMINATED DRINKING WATER		FIRE/EXPLOSION THREAT		CONTAMINATED SOIL
		DRUMS, BARRELS OR CONTAINERS		NO OTHER RESPONSE MECHANISM		OTHER FACTORS

(Identify one or more of the removal actions listed in Section V. **REMOVAL ACTIONS WHICH MAY BE APPROPRIATE**, as examples of the types of response actions which are recommended.)

		SITE SECURITY		DRAINAGE CONTROL		IMPOUNDMENT STABILIZATION
		REMOVAL OF DRUMS, BARRELS, ETC.		SOIL CAPPING		SOIL EXCAVATION
		CONTAIN/TREAT/DISPOSE OF WASTES		CHEMICAL CONTROLS		ALT. DRINKING WATER SUPPLIES

COMMENT:

	ADDITIONAL REMOVAL SITE EVALUATION RECOMMENDED

(Cite one or more of the conditions or factors from Section IV. **CONDITIONS TO WARRANT A REMOVAL ACTION**, as a basis for recommending that additional site evaluation be performed.)

		EXPOSURE TO HAZARDOUS SUBSTANCES OR POLLUTANTS OR CONTAMINANTS				ADVERSE WEATHER IMPACTS
		CONTAMINATED DRINKING WATER		FIRE/EXPLOSION THREAT		CONTAMINATED SOIL
		DRUMS, BARRELS OR CONTAINERS		NO OTHER RESPONSE MECHANISM		OTHER FACTORS

(Identify one or more of the removal actions listed in Section V. **REMOVAL ACTIONS WHICH MAY BE APPROPRIATE**, as examples of the types of response actions which may be appropriate pending the results of further site evaluation.)

		SITE SECURITY		DRAINAGE CONTROL		IMPOUNDMENT STABILIZATION
		REMOVAL OF DRUMS, BARRELS, ETC.		SOIL CAPPING		SOIL EXCAVATION
		CONTAIN/TREAT/DISPOSE OF WASTE		CHEMICAL CONTROLS		ALTERNATIVE DRINKING WATER SUPPLIES

COMMENT:

VII. ADDITIONAL INFORMATION OR COMMENTS:

EPA USE ONLY

VIII. CERTIFICATION

SIGNATURE: _____ _____
DATE

POSITION/TITLE:

OFFICE/AGENCY:

SUPERFUND REMOVAL SITE EVALUATION
and
REMOVAL PRELIMINARY ASSESSMENT
(Supplemental Waste Inventory Sheet).

IX. HAZARDOUS SUBSTANCES, POLLUTANTS OR CONTAMINANT INFORMATION:

MATERIAL DESCRIPTION	CONTAINER INFORMATION					
TRADE NAME/ACTIVE INGREDIENTS	NUMBER of CONTAINERS	SIZE	TYPE	SOLID or LIQUID	% FULL	CONDITION

ATTACHMENT D

Chain of Custody, Field Sheet, and Analytical Results

ANALYTICAL REPORT

June 8, 2000

Report To

Jeff Fletcher
Ecology & Environment, Inc.
6405 Metcalf Ave.
Bldg. 3, Suite 404
Overland Park, KS 66202

Sample Information

Work Order: 1005.0866
Sample No: 1013347
Date Collected: 05/23/00 01:10 PM
Date Received: 05/26/00 10:05 AM
Collector: Jeffrey Fletcher
Collector Phone: 913-432-9961
Matrix: soil

Site Information/Sample Description

Mizzour Paint
19015 Humphrey Access Rd.
Platte City, MO

001 - West Pile

Comments

Analyte	Analysis Result	Detection Limit	Method	Analyst	Date Analyzed
Determination of volatile organic compounds.					
1,1,1-Trichloroethane	< 1. mg/kg	1.	EPA 8260	EJW	06/05/00
1,1,2,2-Tetrachloroethane	< 1. mg/kg	1.	EPA 8260	EJW	06/05/00
1,1,2-Trichloroethane	< 1. mg/kg	1.	EPA 8260	EJW	06/05/00
1,1-Dichloroethane	< 1. mg/kg	1.	EPA 8260	EJW	06/05/00
1,1-Dichloroethylene	< 1. mg/kg	1.	EPA 8260	EJW	06/05/00
1,2-Dichlorobenzene	< 1. mg/kg	1.	EPA 8260	EJW	06/05/00
1,2-Dichloroethane	< 1. mg/kg	1.	EPA 8260	EJW	06/05/00
1,2-Dichloropropane	< 1. mg/kg	1.	EPA 8260	EJW	06/05/00
1,3-Dichlorobenzene	< 1. mg/kg	1.	EPA 8260	EJW	06/05/00
1,4-Dichlorobenzene	< 1. mg/kg	1.	EPA 8260	EJW	06/05/00
2-Butanone (MEK)	< 5. mg/kg	5.	EPA 8260	EJW	06/05/00
2-Hexanone (MBK)	< 5. mg/kg	5.	EPA 8260	EJW	06/05/00
4-Methyl-2-pentanone (MIBK)	36,600. mg/kg	5.	EPA 8260	EJW	06/05/00
Acetone	< 10. mg/kg	10.	EPA 8260	EJW	06/05/00
Benzene	< 1. mg/kg	1.	EPA 8260	EJW	06/05/00
Bromodichloromethane	< 1. mg/kg	1.	EPA 8260	EJW	06/05/00
Bromoform	< 1. mg/kg	1.	EPA 8260	EJW	06/05/00
Bromomethane	< 2. mg/kg	2.	EPA 8260	EJW	06/05/00

< = less than; ug/L = ppb; mg/L = ppm; mg/kg = ppm

Work Order: 1005.0866
Sample No: 1013347
Report Date: 06/08/2000

Site Name / Sample Description
Mizzour Paint
001 - West Pile

Analyte	Analysis Result	Detection Limit	Method	Analyst	Date Analyzed
Carbon Disulfide	< 1. mg/kg	1.	EPA 8260	EJW	06/05/00
Carbon Tetrachloride	< 1. mg/kg	1.	EPA 8260	EJW	06/05/00
Chlorobenzene	< 1. mg/kg	1.	EPA 8260	EJW	06/05/00
Chloroethane	< 1. mg/kg	1.	EPA 8260	EJW	06/05/00
Chloroform	< 1. mg/kg	1.	EPA 8260	EJW	06/05/00
Chloromethane	< 1. mg/kg	1.	EPA 8260	EJW	06/05/00
cis-1,2-Dichloroethylene	< 1. mg/kg	1.	EPA 8260	EJW	06/05/00
cis-1,3-Dichloropropene	< 1. mg/kg	1.	EPA 8260	EJW	06/05/00
Dibromochloromethane	< 1. mg/kg	1.	EPA 8260	EJW	06/05/00
Ethylbenzene	46,900. mg/kg	1.	EPA 8260	EJW	06/05/00
Methyl-t-butyl Ether (MTBE)	< 5. mg/kg	5.	EPA 8260	EJW	06/05/00
Methylene Chloride	< 5. mg/kg	5.	EPA 8260	EJW	06/05/00
Naphthalene	34,600. mg/kg	1.	EPA 8260	EJW	06/05/00
Tetrachloroethylene	< 1. mg/kg	1.	EPA 8260	EJW	06/05/00
Toluene	20,100. mg/kg	1.	EPA 8260	EJW	06/05/00
trans-1,2-Dichloroethylene	< 1. mg/kg	1.	EPA 8260	EJW	06/05/00
trans-1,3-Dichloropropene	< 1. mg/kg	1.	EPA 8260	EJW	06/05/00
Trichloroethylene	< 1. mg/kg	1.	EPA 8260	EJW	06/05/00
Vinyl Chloride	< 1. mg/kg	1.	EPA 8260	EJW	06/05/00
Xylenes, total	255,000. mg/kg	1.	EPA 8260	EJW	06/05/00
Determination of TCLP metals.					
Arsenic (TCLP)	< 0.05 mg/L	0.05	EPA 7060	KJS	06/05/00
Barium (TCLP)	1.22 mg/L	0.01	EPA 6010	KJS	06/06/00
Cadmium (TCLP)	< 0.01 mg/L	0.01	EPA 6010	KJS	06/06/00
Chromium (TCLP)	0.089 mg/L	0.03	EPA 6010	KJS	06/06/00
Lead (TCLP)	< 0.5 mg/L	0.5	EPA 6010	KJS	06/06/00
Mercury (TCLP)	< 0.005 mg/L	0.005	EPA 7470	BNS	06/07/00
Selenium (TCLP)	< 0.05 mg/L	0.05	EPA 7740	KJS	06/05/00
Silver (TCLP)	< 0.03 mg/L	0.03	EPA 6010	KJS	06/06/00
Determination of general chemistry parameters.					
Percent Solids	81.1 %		EPA	BNS	06/02/00
TCLP pH, Final	4.98 units		EPA 1311	BNS	06/01/00
TCLP pH, Initial	4.88 units		EPA 1311	BNS	05/31/00

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Sample No: 1013347
Report Date: 06/08/2000

Site Name / Sample Description
Mizzour Paint
001 - West Pile

Analyte	Analysis Result	Detection Limit	Method	Analyst	Date Analyzed

Keystone Laboratories, Inc.

< = less than; ug/L = ppb; mg/L = ppm; mg/kg = ppm

CHAIN OF CUSTODY RECORD

Keystone LABORATORIES, INC.

☒ 600 E. 17th St. S.
Newton, IA 50208
Phone: 515-792-8451
Fax: 515-792-7989

☐ 3012 Ansborough Ave.
Waterloo, IA 50701
Phone: 319-235-4440
Fax: 319-235-2480

☐ 1304 Adams
Kansas City, KS 66103
Phone: 913-321-7856
Fax: 913-321-7937

PRINT OR TYPE INFORMATION BELOW

SAMPLER: Jeffrey Fletcher
SITE NAME: Mizzou Paint
ADDRESS: 19015 Humphrey Access Rd
CITY/ST/ZIP: Platte City Missouri
PHONE:

REPORT TO:
NAME: Jeffrey Fletcher
COMPANY NAME: Ecology & Environment
ADDRESS: 6405 Metcalf Ste 404
CITY/ST/ZIP: Overland Park KS 66202
PHONE: 913-432-9961
FAX: 913-432-0670

BILL TO:
NAME: Same as report
COMPANY NAME:
ADDRESS:
CITY/ST/ZIP:
PHONE:
Keystone Quote No.: (If Applicable)

CLIENT SAMPLE NUMBER	DATE	TIME	SAMPLE LOCATION	NO. OF CONTAINERS	MATRIX	GRAB/COMPOSITE	ANALYSES REQUIRED: TCLP Metals	ANALYSES REQUIRED: VOCs	LAB USE ONLY: LABORATORY SAMPLE NUMBER
001	23 May 00	1310	West pile	4	Soil	G	X	X	1013347

LAB USE ONLY
LABORATORY WORK ORDER NO.: 1005.0866
SAMPLE TEMPERATURE UPON RECEIPT: °C
SAMPLE CONDITION COMMENTS:

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Turn-Around
[signature]	25 May 00			☐ Standard ☐ Rush ____ Contact Lab Prior to Submission
Relinquished by: (Signature)	Date / Time	Received for Lab by: (Signature)	Date 5-26-00 / Time 10:05	Remarks:
		[signature]		

Original - Return with Report • Yellow - Lab Copy • Pink - Sampler Copy

FORM: CCR 7-97

FIELD SHEET
U.S. ENVIRONMENTAL PROTECTION AGENCY-REGION VII
Superfund Division, 901 North Fifth Street, K.C., KS 66101

Site Name: Mizzou Paint
19015 Humphrey Access Road, Platte City Missouri

Sample #: 001

Project Leader: Roy Crossland

Sample Date: 23 May 00
Sample Time: 1310
Sampler: J Fletcher

ANALYSIS REQUESTED

Container	Preservative	Analysis
1 - 8oz. Jar	NA	TCLP Metals
1 - 8oz. Jar	NA	VOC's

SAMPLE DESCRIPTION

Media: Soil **Sample Depth:** NA **Aliquots:** 9

Sample Location: waste pile

Sample Description:

Other Comments/Property Owner Information:

Dennis Iless
19015 Humphrey Access Road
Platte City Missouri

SAMPLE LOCATION MAP